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Grade received 100%

To pass 80% or higher

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Graded Quiz: Mastering SQL Joins

Latest Submission Grade 100%

1.	. Which of this type of join returns an output of only matching records in the two tables? (Select all that apply)	1/1 point	
	✓ JOIN		
	 Correct Correct! This type of join returns those records which have matching values in both tables. 		
	☐ LEFT JOIN		
	☐ FULL JOIN		
	✓ INNER JOIN		
	 Correct Correct! This type of join returns those records which have matching values in both tables. 		
2.	. What is the golden rule for performing SQL joins? (Select all that apply)	1/1 point	
	Find a related row or record in both tables		
	Find a related column or field in both tables		
	 Correct Correct! One important thing to note is, we can only join these two tables on their related or linking column or field, 		
	Find the unique and primary keys in both tables		
	Find the linking field or column in both tables		
	 Correct Correct! One important thing to note is, we can only join these two tables on their related or linking column or field, 		
3.	Consider the tables with their respective fields below:	1/1 point	
	employees: emp_id, dept_id, manager_id, last_name		
departments: dept_id, manager_id, dept_name, location_id			
	You want to create a report displaying employees last names, department names and locations, Which query should you use to create an INNER JOIN?		
	SELECT employees.last_name,departments.dept_name,departments.location_id FROM employees e NNNER JOIN departments D		

	1 2 3 4 5	SELECT e.last_name, d.dept_name, d.location_id FROM employees e JOIN departments d ON e.dept_id = d.dept_id;	
0	1 2 3	SELECT last_name, dept_name, location_id FROM employees, departments;	
0	1 2 3	SELECT e.last_name, d.dept_name, d.location_id FROM employees e JOIN departments d;	
\odot	Correc	t! This syntax is correct. It specifies correctly the tables and respective fields. In addition, the JOIN keyword and the ON	
	many r	ecords are in the dept_manager_dup table? <i>(Please enter a numeric value/answer)</i>	1/1 point
	Correc	t! From the project, the dept_manager_dup table had 26 records.	1/1 point
O 1	DEFINE	clause	
0 :	SELECT	clause	
● \	WHERE	clause	
O 1	ROM cl	ause	
\bigcirc	Correc	t! The ON predicate works exactly like the WHERE clause. It returns in the output where the two fields match. In fact,	
Whic	h of the	se is true of LEFT JOIN? <i>(Select all that apply)</i>	1/1 point
✓ A	All recor	ds from the left table that have no matching record from the right table.	
\odot	Correc	t! In addition to LEFT JOIN retrieving all matching records in both tables, it returns all values from the left table that match	
✓ I	t return	s all matching records in both tables	
\odot			
□ <i>I</i>	All recor	ds from the right table	
	How 26 O I I O S O V Whice V A O O O O O O O O O O O O O O O O O O	2 3 4 5 1 2 3 Correct Correct Correct Correct Correct Correct WHERE Which of the All recorrect Where Correct Correct Where It return Correct	2 FROM employees e 3 JOBN departments 3 4 ON endept_id = 6.dept_id; 5 5 6 1 SELECT last_name, dept_name, location_id 2 FROM employees, departments; 3 1 SELECT entat_name, dept_name, destention_id 2 FROM employees, departments; 3 1 SELECT entat_name, disdept_name, distention_id 2 FROM employees e 3 JOBN departments d; ② Correct Correct! This syntax is correct. it specifies correctly the tables and respective fields. In addition, the JOIN keyword and the ON predicate was specified correctly. How many records are in the dept_manager_dup table? (Please enter a numeric value/answer) 20 ② Correct Correct! From the project, the dept_manager_dup table had 26 records. The ON predicate in joins is written like a

Write a query that returns how many managers belong to different departments. (Select all that apply)

https://www.coursera.org/learn/mastering-sql-joins/exam/fEJPQ/graded-quiz-mastering-sql-joins/view-attempt

7. Consider two tables: dept_manager and departments

1/1 point



1	SELECT d.dept_name, COUNT(m.emp_no)	
2	FROM dept_manager m	
3	JOIN departments d	
4	ON m.dept_no = d.dept_no	
5	GROUP BY d.dept_name;	
6		

⊘ Correct

Correct! This query is syntactically correct. Since we need how many managers, the COUNT function is used. Additionally, the tables in question were correctly specified. Lastly, the GROUP BY clause was used because of the aggregate function used.



- SELECT d.dept_name, COUNT(m.emp_no)
- 2 FROM dept_manager m
- 3 JOIN departments d
- 4 ON m.dept_no = d.dept_no
- 5 GROUP BY dept_name;
- 6

✓ Correct

Correct! This query is syntactically correct. Since we need how many managers, the COUNT function is used. Additionally, the tables in question were correctly specified. Lastly, the GROUP BY clause was used because of the aggregate function used.

Whether we GROUP BY d.dept_name or just dept_name, they mean the same thing.

┑┌	1	SELECT d.dept_name, COUNT(m.emp_no)	
_	2	FROM dept_manager m	
	3	JOIN department d	
	4	ON m.dept_no = d.dept_no	
	5	GROUP BY d.dept_name;	
	6		

	1	SELECT d.dept_name, COUNT(m.emp_no)
_	2	FROM dept_manager m
	3	JOIN departments d
	4	<pre>ON m.dept_no = d.dept_no;</pre>
	5	

EMPLOYEES

LAST_NAM E	DEPARTMENT_I	SALAR Y
Getz	10	3000
Davis	20	1500
King	20	2200
Davis	30	5000
Kochhar		5000

DEPARTMENTS

DEPARTMENT_I D	DEPARTMENT_NA ME
10	Sales
20	Marketing
30	Accounts
40	Administration

 $Retrieve\ all\ employees\ last\ names,\ departments\ and\ salary,\ whether\ or\ not\ they\ have\ matching\ departments\ in\ the\ departments\ table.$

Which query would you use?



- 1 SELECT e.last_name, d.department_name, e.salary
- 2 FROM employees e
- 3 LEFT OUTER JOIN departments d
- 4 ON e.department_id = d.department_id;

1/1 point

0	1 2 3 4 5	SELECT e.last_name, d.department_name, e.salary FROM employees e RIGHT OUTER JOIN departments d ON e.department_id = d.department_id;	
0	1 2 3 4 5	<pre>SELECT e.last_name, d.department_name, e.salary FROM employees e FULL OUTER JOIN departments d ON e.department_id = d.department_id;</pre>	

✓ Correct

Correct! This clearly shows a LEFT JOIN statement, since we are interested in joining the employees (the left table) to the departments (right table) whether they match or not with the departments table (right table)

9. Evaluate this SQL statement:

1/1 point

```
1 SELECT e.employee_id, e.department_id, d.department_name, e.salary
2 FROM employees e, departments d
3 WHERE e.department_id = d.department_id;
4
```

Which SQL statement is equivalent to the above SQL statement?

	1	SELECT e.employee_id, e.department_id, d.department_name, e.salary
	2	FROM employees e
	3	JOIN departments d
	4	<pre>ON e.department_id = d.department_id;</pre>
	5	
	1	SELECT employee_id, department_id, department_name, salary
	2	FROM employees
	3	JOIN departments
	4	USING e.department_id, d.department_id;
	5	osino e.department_id, d.department_id,
	,	
	1	SELECT employee_id, department_id, department_name, salary
	2	FROM employees
	3	WHERE department_id IN (SELECT department_id
	4	FROM departments);
	5	Tion departments,
	3	
□		
\cup	1	SELECT e.employee_id, e.department_id, d.department_name, e.salary
	2	FROM employees
	3	NATURAL JOIN departments;

⊘ Correct

Correct! Using JOIN and ON gives the same result as the query in the result. Using WHERE is called the **old join syntax.** Using JOIN and ON is referred to as the **new join syntax.**

Although using <u>WHERE or JOIN</u>, the retrieved output is identical. However, using WHERE is more time-consuming. Therefore, the WHERE syntax is perceived as **morally old** and is rarely employed by professionals. The JOIN syntax allows you to modify the connection between tables easily.

10. Which of the following is true about FULL OUTER JOIN created on two tables Table 1 and Table 2?

1 / 1 point

- Retrieves both matched and unmatched rows of Table 1 and Table 2
- Retrieves the unmatched rows of Table 2

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Retrieves only matched rows of Table 1 and Table 2		
Retrieves all the unmatched rows of Table 1		
Correct Correct! In SQL the FULL OUTER JOIN combines the rest unmatched) rows from the tables on both sides of the join	ults of both left and right outer joins and returns all (matched or in clause.	
11. What is the proper way to write a DATE data type in SQL?		1/1 point
○ YYYY/MM/DD		
YYYY-MM-DD		
O DD/MM/YYYY		
O DD-MM-YYYY		
✓ Correct Correct! The proper format of a DATA data type is YYYY-M	M-DD im that order	
12. How many aggregate functions are in SQL?		1/1 point
O 4		
O 3		
O 6		
get the sum of a numeric column, e.g salary), AVG (to get	of the aggregate functions in SQL. Other aggregate functions are SUM (to the average of a numeric column, e.g salary), MIN (to retrieve the num value of a column). Due to how aggregate functions work, they are	
13. A record that has the same data value for every field of a table in	in SQL, is said to be a record.	1 / 1 point
Oistinct		
Similar		
Duplicate		
All of the above		
	te rows , are identical rows in an SQL table. A record that has e records gives inaccurate or stale data, which leads to bad	